NAME OF THE COURSE	PROJE	CTS' PLANNING								
Code	ECS405 Year of study 1									
Course teacher	Ivan Matić, PhD associate professor Ljiljana Najev Čačija, PhD assistant professor  Credits (ECTS)  6									
Associate teachers				ype of instruction L number of hours) 26			S	E 26	F	
Status of the course	Mandatory Percentage of application of e-learning 25%									
	COURSE DESCRIPTION									
Course objectives  Course enrolment requirements and	planning Entry red	de students with prac g of commercial projecturements are define and Study Regulation	cts. d by the Statut						and	
entry competences required for the course	Competencies – basic management knowledge – especially planning function, knowledge from basic project management, PC/MS Office operating skills.									
Learning outcomes expected at the level of the course (4 to 10 learning outcomes)	<ol> <li>Course learning outcome:         <ol> <li>To independently design and execute, by application of appropriate tools and method detailed planning of commercial projects (Level 7)</li> </ol> </li> <li>Specific learning outcomes:         <ol> <li>To design the process and determine the costs and traps of projects' planning (Level 7)</li> <li>To analyse and evaluate available information about project with the aim of developin project plan (Level 6/7).</li> </ol> </li> <li>To develop various aspects of project plan through combined application of basic (lin planning methods (Level 6/7).</li> <li>To develop various aspects of project plan through combined application of complex (network) planning methods (Level 6/7).</li> <li>To design optimization of time, costs and other resources allocated to the project through application of appropriate methods and tools (Level 6/7).</li> </ol>								evel 7). eloping c (line) plex	
		Lect	tures			Exercises / Seminars				
		Торіс		Hr s		Top			Hrs	
Course content broken down in detail by weekly class schedule (syllabus)	1.	Introduction to proplanning/ Process, basic traps of proje	costs and	2	plannin analysi	-	study)/ In ects' plan		2	
	2.	Procedure of initial plan preparation – interdependence m	WBS and	2	and into develop Results	erdepend oment analysis	ment: Wilence ma	trix le	2	
	3.	Role of Gantt char planning	ts in projects'	2	charts'	developr s' planniı	ment: Ga ment for ng purpos s – Mood	se	2	

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		!		Assignment 1 submission -			
				WBS and interdependence			
				matrix development			
		Critical path method –		Practical assignment: Critical			
	4.	critical/non-critical activities,		path method	2		
	٦٠.	time reserves	2	application/calculation	2		
		time reserves		Results analysis - Moodle			
		Role of probability in projects'		Practical assignment:			
				Analysis of the role of			
	5.		2	probability in projects'	2		
		planning		planning			
		!		Results analysis - Moodle			
				Line diagram development			
	6.	Introduction to network		(integral assignment)			
		planning of projects – Development of network diagrams		Results analysis – Moodle	2		
				Assignment 2 submission –	2		
				I -			
				Probability calculation			
		Time planning of project's activities – PERT		Practical assignment: PERT			
	7.			method	2		
				application/calculation			
				Results analysis - Moodle			
		Colloquium I					
	8.	Time planning of project's		Practical assignment: CPM			
			2	method	2		
		activities - CPM		application/calculation	2		
				Results analysis - Moodle			
	9.	Time planning of project's activities – Precedence		Practical assignment:			
			2	Precedence method	2		
				application/calculation			
				Results analysis – Moodle			
				Assignment 3 submission –			
				Network diagram			
	10.			Practical assignment:	2		
		Cost estimation of project's activities – budgeting  Estimation of needs for project's		Project's costs analysis and			
				estimation			
				Results analysis – Moodle			
				Practical assignment: Needs			
				for project's resources			
		resources – Transplan, resource	2	analysis and estimation	2		
		matrix, histogram		Results analysis – Moodle			
				Practical assignment:			
12		Project's time, costs and other resources optimization/		Execution of project's			
				1	2		
	12.		2	resources optimization/			
		Project's cash flows planning		Project's cash flows analysis			
				and planning			
				Results analysis – Moodle			
		Project's cash flows planning	-	Network diagram			
		/Computer/software use for		development (integral	2		
	15.	projects' planning		assignment)	~		
		projects planning		Results analysis – Moodle			
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				1 roject s plan optimization				
Format of instruction	X lectures  □ seminars and v  X exercises  □ on line in enti  X partial e-learni □ field work	X independent assignments X multimedia □ laboratory □ work with mentor □ (other)						
Student responsibilities	In order to get a signature, student must attend regularly(minimum 50% of attendance at lectures and exercises) and participate actively in discussions, analysis and submit a min. 50% of practical assignments.							
Screening student work (name the	Class attendance	1,5	Research			Practical trainin	g 1	1,5
proportion of ECTS credits for each	Experimental work		Report			(Other)		
activity so that the total number of ECTS	Essay		Seminar essay	у		(Other)		
credits is equal to the ECTS value of the	Test /Colloquiums	3	Oral exam			(Other)		
course)	Written exam		Project			(Other)		
Grading and evaluating student work in class and at the final exam	<ul> <li>Knowledge evaluation (learning outcomes) through: <ul> <li>(1) 2 tests or alternatively through written and oral exam, and</li> <li>(2) individual and group work on resolving various problems/tasks during the semester alternatively through written and oral exam.</li> </ul> </li> <li>Course grade decomposition: <ul> <li>individual and group work on resolving various problems/tasks in the domain of project's planning (min level 50%) =&gt; 15% of share in course grade</li> <li>2 tests during the semester (min level 50%) =&gt; 85% of share in course grade</li> </ul> </li> <li>Fulfilment of all obligations related to course and positively graded and evaluated studen work in class (practical assignments, colloquiums) results in student passing the course in exam pre period.</li> <li>Activities/work, which are not successfully carried-out aspects during the semester by student, are later subject of evaluation in regular exam periods.</li> </ul>							of adent's se in
Required literature (available in the library and via other media)	Title					Number of copies in the library	Availabil other n	-
	Radujković, M. i suradnici: <i>Planiranje i kontrola projekata</i> , Sveučilište u Zagrebu – Građevinski fakultet, Zagreb, 2012. (pages: 5-224; 273-388)  Authorized lectures and other teaching materials available					3		
	on the Moodle course pages  Hartley, S. (2020). Project Management: A practical guide to planning and managing projects. Routledge, New York							
Optional literature (at the time of submission of study programme proposal)	Paul, V. K., & B. Scheduling. Cop.					ion Project Plan	ning and	

Dionne, R. (2018). Project Planning for the Stage: Tools and Techniques for Managing Extraordinary Performances, Southern Illinois University, Carbondale Lock, D. (2017). The essentials of project management. Routledge, New York Raju, I. B., & Ganta, P. (2021). The impacts of Various Activity Distribution on Project Management in CPM and PERT Networks. Solid State Technology, 64(2), 6502-6513. Kholil, M., Alfa, B. N., & Hariadi, M. (2018). Scheduling of house development projects with CPM and PERT method for time efficiency (Case study: House type 36). In *IOP* Conference Series: Earth and Environmental Science (Vol. 140, No. 1, p. 012010). IOP Publishing. Cynthia, O. U. (2020). Implementation of Project Evaluation and Review Technique (PERT) and Critical Path Method (CPM): A Comparative Study. Int J Ind Operations Res, 3(004). Romadhona, S., Kurniawan, F., & Tistogondo, J. (2021). Project Scheduling Analysis Using the Precedence Diagram Method (PDM) Case Study: Surabaya's City Outer East Ring Road Construction Project (Segment 1). International Journal of Engineering, Science and *Information Technology*, 1(2), 53-61. Screening students' class attendance and successfulness of carrying-out other obligations (teacher) Monitoring of class execution (vice-dean for education) Analysis of studying successfulness according to all program's courses (vice-dean for Quality assurance education) methods that ensure Students survey on quality of teacher and classes for every course in the program (UNIST, the acquisition of exit Centre for quality improvement) competences Through exam, which teacher carries-out, all courses' learning outcomes are evaluated. Periodically the content of the exam is evaluated, according to which the appropriateness of the manner of evaluation of learning outcomes is being determined (vice-dean for education) Other (as the proposer wishes to add)